

PATENT  
915.387

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the matter of: Johnson )  
Serial No: ) ) Group Art Unit  
Filed: Herewith ) ) Examiner:  
For: An Electronic Device ) )

ASSISTANT COMMISSIONER OF PATENTS  
WASHINGTON, D.C. 20231

## **PRELIMINARY AMENDMENT**

Sir:

Please preliminarily amend the above-referenced application as follows:

### In the Specification:

Please replace paragraph beginning at line 14 of page 1, with the following rewritten paragraph:

A transducer in a mobile telephone may be used to fulfill several functions in addition to the conversion of signals received by the telephone into speech so that the user can hear the person they are communicating with. For example, the transducer can also be used as a buzzer to alert the owner to an incoming telephone call. This type of transducer is referred to as multi-functional.

Express Mail No. EL628641544US

5 Please replace paragraph beginning at line 8 of page 5, with the following rewritten paragraph:

Preferably, the recess is configured such that when the cover is mounted to the housing, a sound outlet is formed in the joint between the cover and the housing in the region of the recess. The aperture is most preferably a narrow slit and is largely obscured by the joint between the cover and the housing to prevent a user from being tempted to place this side of the telephone against the ear.

10 Please replace paragraph beginning at line 18 of page 7, with the following rewritten paragraph:

15 The inside face of the rear wall 12 is integrally formed with a seat to receive a transducer 16 having an upper surface 16a, illustrated in Figure 3. The transducer 16 is capable of relatively high acoustic volume and is used when the "hands free" mode is selected. The seat has an annular portion 17 against which the transducer 16 rests when placed on the housing 11 as shown in Figure 2. The annular portion 17 has an aperture 18 which acts as a duct for the transmission of sound generated by the transducer 16 through the rear wall 12 of the housing 11. The periphery of the annular portion 17 has an integrally formed upstanding wall 19 extending around its circumference having a top edge 20. The diameter of the annular portion 17 is slightly greater than the diameter of the transducer 16 which locates 20 within the area enclosed by it on the annular portion 17.

Please replace paragraph beginning at line 17 at page 9, with the following rewritten paragraph:

Another embodiment will now be explained with reference to Figures 5, 6 and 7. It will be appreciated that this embodiment may or may not be combined with the first embodiment described with reference to Figures 2 to 4. However, it is envisaged that both embodiments will be used together.

In the Drawings:

Enclosed is a Submission of Proposed Drawing Amendment for Approval by Examiner (37 C.F.R. 1.123. The reason for this proposed drawing change is to have the identification of the arrows shown therein to be in conformance with the specification.

In the Claims:

11. (Amended) A device according to claim 10, wherein the spring comprises at least one region of the substantially planar annular ring which is deformed out of the plane of said ring, said region being deflected back toward the plane of said ring when in contact with the upper surface of a transducer and the retainer is rotated to attach it to the housing, the resilience of each of said at least one region biasing the transducer toward the housing.

1 24. (Amended) An electronic device comprising a housing, a cover, a transducer  
2 and a retainer for mounting the transducer on the housing, the retainer including a first

3 portion for co-operation with a second portion on the housing to attach the retainer to the  
4 housing over the transducer;  
5 wherein the housing has a recess formed therein, wherein the cover is mounted on the  
6 housing over the recess, the cover and the housing together forming an acoustic duct in the  
7 region of the recess.

1 25. (Amended) A mobile telephone comprising an electronic device having a  
2 housing, a cover, a transducer and a retainer for mounting the transducer on the housing, the  
3 retainer including a first portion for co-operation with a second portion on the housing to  
4 attach the retainer to the housing over the transducer;

5 wherein the housing has a recess formed therein, wherein the cover is mounted on the  
6 housing over the recess, the cover and the housing together forming an acoustic duct in the  
7 region of the recess.

In the Abstract:

Please replace paragraphs beginning at lines 1 and 12 (combining both paragraphs) of page 15, with the following rewritten paragraph:

**Abstract of the Disclosure**

5

An electronic device including a housing, a transducer and a retainer for mounting the transducer on the housing (11) is disclosed. The device includes co-operating means (21,28) on the housing (11) and on the retainer (26) for attaching the retainer (26) to the housing (11) over the transducer (16). The retainer (26) is preferably attached to the housing (11) with a bayonet type fastener so that rotation of the retainer (26) against spring pressure positions lugs (28) on the retainer (26) in slots (22) on the housing (11). The present invention also discloses a housing (11) for a mobile telephone having a recess (39) therein and a cover (38) mounted on the housing (11) over the recess (39). The cover (38) and the housing (11) together form an acoustic duct in the region of the recess (39).

15

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Remarks

This amendment is filed for the purpose of placing the application into standard U.S. format and to eliminate any multiple dependent claims. Claims 11, 24 and 25 have been amended.

With respect to the drawings, the reason for this proposed drawing change is to have the identification of the arrows shown therein to be in conformance with the specification.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

Respectfully submitted,

Date: 6/28/2001



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VERSION WITH MARKINGS TO SHOW CHANGES MADEIn the Specification:

Paragraph beginning at line 14 of page 1 has been amended as follows:

A transducer in a mobile telephone may be used to [fulfil] fulfill several functions in addition to the conversion of signals received by the telephone into speech so that the user can hear the person they are communicating with. For example, the transducer can also be used as a 5 buzzer to alert the owner to an incoming telephone call. This type of transducer is referred to as multi-functional.

Paragraph beginning at line 8 of page 5 has been amended as follows:

Preferably, the recess is configured such that when the cover is mounted to the housing, a 10 sound outlet is formed in the [join] joint between the cover and the housing in the region of the recess. The aperture is most preferably a narrow slit and is largely obscured by the [join] joint between the cover and the housing to prevent a user from being tempted to place this side of the telephone against the ear.

15 Paragraph beginning at line 18 of page 7 has been amended as follows:

The inside face of the rear wall 12 is integrally formed with a seat to receive a transducer 16 having an upper surface 16a, illustrated in Figure [2] 3. The transducer 16 is capable of relatively high acoustic volume and is used when the "hands free" mode is selected. The

seat has an annular portion 17 against which the transducer 16 rests when placed on the housing 11 as shown in Figure [3] 2. The annular portion 17 has an aperture 18 which acts as a duct for the transmission of sound generated by the transducer 16 through the rear wall 12 of the housing 11. The periphery of the annular portion 17 has an integrally formed upstanding wall 19 extending around its circumference having a top edge 20. The diameter of the annular portion 17 is slightly greater than the diameter of the transducer 16 which locates within the area enclosed by it on the annular portion 17.

Paragraph beginning at line 17 at page 9 has been amended as follows:

Another embodiment will now be explained with reference to Figures 5, 6 and 7. It will be appreciated that this embodiment [need] may or may not be combined with the first embodiment described with reference to Figures 2 to 4. However, it is envisaged that both embodiments will be used together.

15- In the Claims:

1        11. (Amended) A device according to claim 10, wherein the spring comprises at  
2        least one region of the substantially planar annular ring which is deformed out of the plane of  
3        said ring, said region being deflected back toward the plane of said ring when in contact with  
4        the upper surface of a transducer and the retainer is rotated to attach it to the housing, the  
5        resilience of [the or] each of said at least one region biasing the transducer toward the  
6        housing.

1           24. (Amended) An electronic device [according to claim 1] comprising a housing,  
2           a cover, a transducer and a retainer for mounting the transducer on the housing, the retainer  
3           including a first portion for co-operation with a second portion on the housing to attach the  
4           retainer to the housing over the transducer; [and a housing according to claim 16]  
5           wherein the housing has a recess formed therein, wherein the cover is mounted on the  
6           housing over the recess, the cover and the housing together forming an acoustic duct in the  
7           region of the recess.

1           25. (Amended) A mobile telephone comprising an electronic device [according to  
2           claim 1] having a housing, a cover, a transducer and a retainer for mounting the transducer  
3           on the housing, the retainer including a first portion for co-operation with a second portion  
4           on the housing to attach the retainer to the housing over the transducer; [and a housing  
5           according to claim 16]  
6           wherein the housing has a recess formed therein, wherein the cover is mounted on the  
7           housing over the recess, the cover and the housing together forming an acoustic duct in the  
8           region of the recess.

In the Abstract:

Paragraph beginning at line 1 of page 15 has been amended as follows:

Abstract of the Disclosure

5 [An Electronic Device]

An electronic device including a housing, a transducer and a retainer for mounting the transducer on the housing (11) is disclosed. The device includes co-operating means (21,28) on the housing (11) and on the retainer (26) for attaching the retainer (26) to the housing (11) over the transducer (16). The retainer (26) is preferably attached to the housing (11) with a bayonet type fastener so that rotation of the retainer (26) against spring pressure positions lugs (28) on the retainer (26) in slots (22) on the housing (11).

[]

The present invention also discloses a housing (11) for a mobile telephone having a recess (39) therein and a cover (38) mounted on the housing (11) over the recess (39). The cover (38) and the housing (11) together form an acoustic duct in the region of the recess (39).

[Figure 3]

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Keith JOHNSON  
Application No.: 0 / Group No.:  
Filed: Herewith Examiner:  
For: An Electronic Device

Assistant Commissioner for Patents  
Washington, D.C. 20231

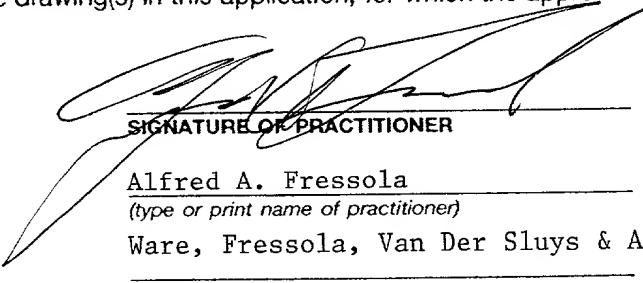
**SUBMISSION OF PROPOSED DRAWING AMENDMENT  
FOR APPROVAL BY EXAMINER (37 C.F.R. 1.123)**

Attached please find

(check applicable items)

a sketch in permanent ink,  
 a copy of the original drawing(s) with red ink markings,

showing the proposed changes to the drawing(s) in this application, for which the approval of the Examiner is requested.



SIGNATURE OF PRACTITIONER

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(type or print name of practitioner)

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NOTE: 37 C.F.R. § 1.121(a)(3)(ii) indicates that "Where a change to the drawings is desired, a sketch in permanent ink showing proposed changes in red, to become part of the record, must be filed for approval by the examiner and should be in a separate paper."

NOTE: While drawings submitted under §§ 1.81, 1.83-1.85, 1.152, 1.165, 1.174, and 1.437 may not be filed by facsimile, proposed drawing corrections for approval may be submitted by facsimile transmission. Notice of Oct. 15, 1993, 58 Fed. Reg. 54,494-54,504, at 54,495.

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**CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. 1.8(a))**

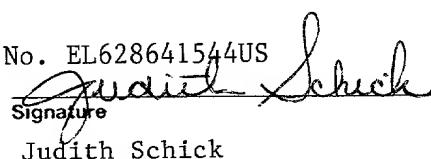
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Judith Schick

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Date: 6/28/01

